Assembly and Operating Instructions

All-In-One Series

Animated Lighting

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Overview

The Christmas In a Box is a plug-and-play package from Animated Lighting that enables you to build an exciting music and light show on bushes, trees, windows and any other illuminated items in your display. The Christmas In A Box includes an instructional video, installation examples, multiple “shows” to choose from, a FM transmitter so visitors can listen to your music via their FM radio, etc.

Unpacking Christmas in a Box

For Christmas in a Box

1. This is the front of the Christmas in a Box. This includes a 16-Channel Light Controller and one power cord dangle (15A).

2. Here are the insides of the Christmas in a Box. On the left is the Monster Brain (that plays your lighting shows), an Installation Video, and the FM Transmitter (the gold unit on the bottom). On the right is the 16 channel light controller and a diagram showing a typical installation. You plug your extension cords for your lighting channels directly into the right side of this unit.

Expansion Controller
(An Optional Item Sold Separately)

The Christmas In A Box Expansion Controller (includes a 16-channel light controller and one to four power cord dangles depending on amperage requirements)

This is available in 15A, 30A, or 60A configuration.

Amplified Outdoor Speaker
(An Optional Item Sold Separately)

This amplified outdoor speaker can be added if you want to broadcast music via a speaker to visitors to your display.

Other Parts You Might Need to Supply

To complete a Christmas In A Box installation, you will need to supply **extension cords** that can connect your lights from their hanging area to the Christmas In A Box Light Controller Box. If you want to also broadcast music over speakers, you will need **a pair of speakers and perhaps an amplifier**. You will need to supply your own **light strands, whether they be C9, C7, mini-lights or LED light strings** (Consult Appendix A for more information if using your own light strands). Finally, you might need **cable ties** to secure lights to trees or other items plus **duct tape** for securing wires that cross walking paths.

What is Inside the Christmas in a Box?. . . . . .

The Christmas in a Box is made up of several components.
Let's review what is inside your unit:

TEN MINUTE INSTALLATION VIDEO GUIDE — PLEASE WATCH ME FIRST!!

10 Minute Installation Video Guide

We have listed what to do (and what NOT to do) in setting up your display using Christmas In A Box. We promise this will not be a waste of your time!!

Monster Brain

This is the unit that controls the pre-programmed lighting shows and the corresponding music. You will see that the shows and songs are stored on Secure Digital (SD) cards. Please note the instructions that show you how to change your show.

How to Run:

1. Unplug power to entire system
2. Gently push in card where arrow is pointing and release
3. Remove existing show card and put in safe place
4. Insert new show card, label facing up
5. Push in show card until it clicks
6. Plug in power and wait 30 seconds.

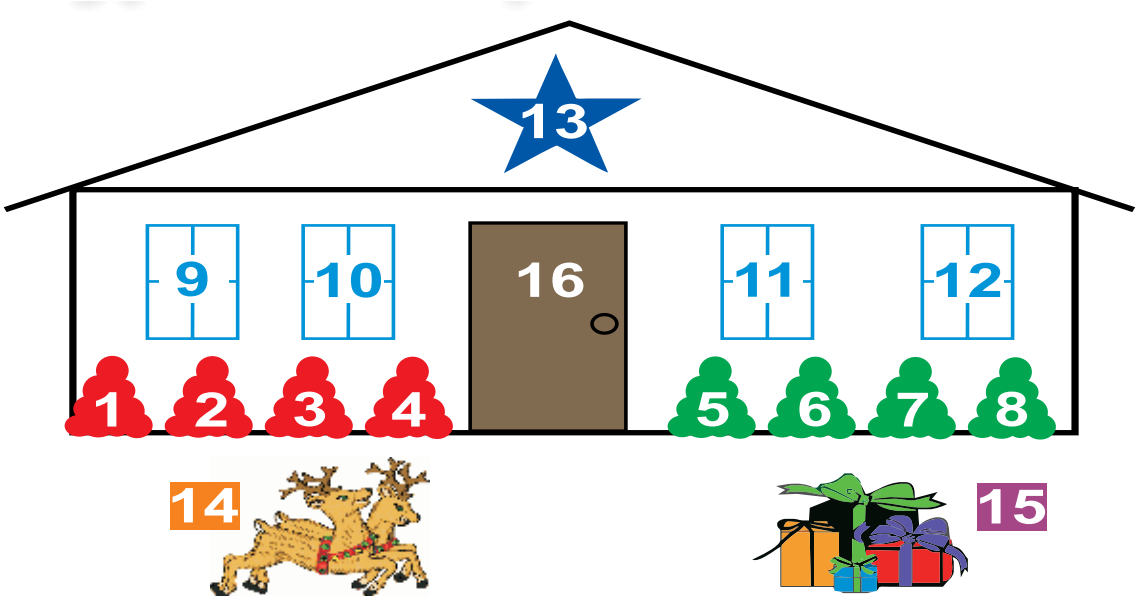
DANGER - HIGH VOLTAGE

Like any electrical device, disconnect power before making or modifying elecgrical connections. Failure to do so could result in serious personal injury or death.

Christmas in a Box Show Cards

There are two Christmas In a Box (CIAB) Show Cards: Classic Christmas Show and "Techno" Christmas Show. This allows you to plug in either "show" depending on your tastes in holiday music. The instructions to change the Light Show are right below the Monster Brain (find the blue arrow). If you follow these instructions (REMEMBER: Remove Power First before you start pulling anything out) you will be able to change the show with no problem!!

Typical Simple Installation Diagram



Later in this manual you will see different examples of how people lay out their "lighting channels" for their display. We have listed one really simple way to lay out lighting channels on a typical residential display. Please note the colors and the numbers on the diagram correspond to the various plugs on the Light Controller. Plugging in your light strings to the light controller should be a breeze!

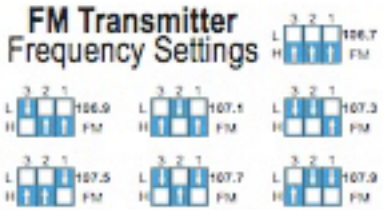
FM Transmitter

Visitors to your display can listen to the Christmas In A Box's holiday music by turning the FM radio in their car to the appropriate frequency.

The FM transmitter is the Gold unit on the left side of this box. Please note that there is an antenna (the black wire) that is attached to the gold transmitter. It is IMPORTANT that you unwind and fully extend the antenna out of the Christmas In a Box and connect to a wall, window or any other solid surface. Place the antenna as high as possible. The higher you can place the antenna the farther you will broadcast.

IMPORTANT: DO NOT HANG OR LIFT THE TRANSMITTER BY THE ANTENNA

Changing the FM Transmitter to a Different Channel:



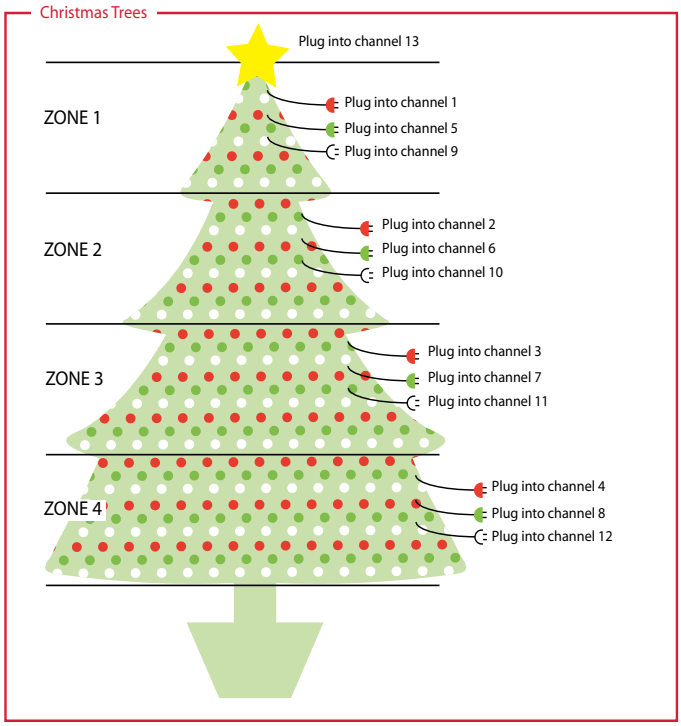
MAKE SURE THE GOLD BOX POWER LIGHT IS ON

You want to select a channel that no station or a very weak station. It is best to do this in your car or with a radio that has a digital readout. You can also visit *http://www.radio-locator.com* to see the stations being used in your area.

You can set the transmitter to an open channel using the channel selection switches on the side of the gold transmitter. If you look at the diagram next to the gold transmitter we have shown you examples of how to position the selection switches to different frequencies.

Another Suggested Light Arrangement

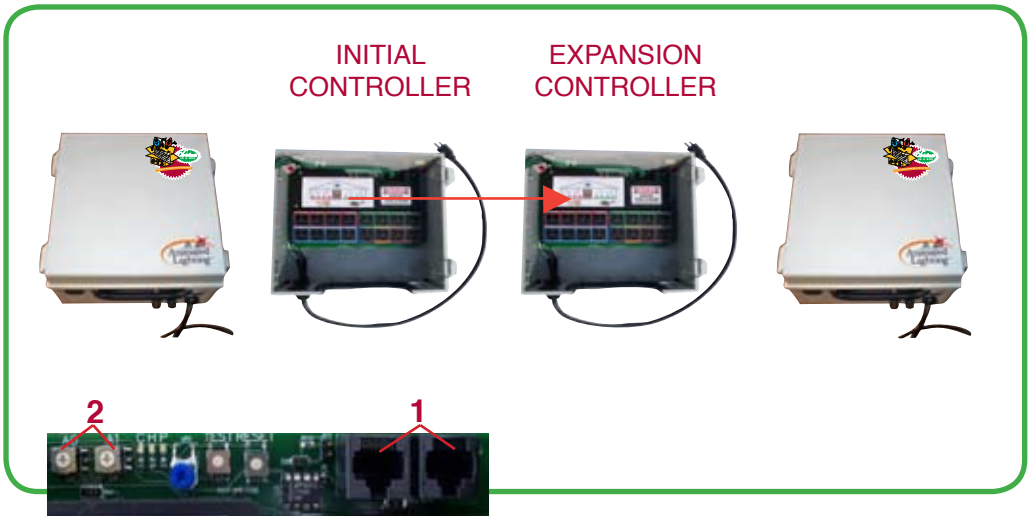
Now that you have selected a show to install, another example is the diagram below for hanging your lights. In the first section is a suggested light arrangement for a 16 channel show based on one Christmas in a Box light controller.



Don't overload the channels! See Appendix A for how many lights each controller can support!

Using the Christmas in a Box Expansion Conroller

If your display requires more power than one Christmas in a Box light controller can hold, you can easily add multiple light controllers to your display with the Christmas in a Box Expansion Light Controller, which is sold separately. You add an expansion controller into your display by “daisy chaining” it to your initical Christmas in a Box controller with a CAT 5 network cable as shown below.



1) CONNECTION: Locate the RJ45 jacks inside each of your light controllers. Connect one end of a CAT5 network cable into the open RJ45 jack of your initial controller. Run the other end of the cable out of the hole in the bottom of the box and into a hole on the bottom of the expansion controller. Plug that end into one of the available RJ45 jacks on your expansion controller.

2) ADDRESSING: Locate the two dials on the same board as the RJ45 jacks that say “A1” and “A0” on them. Be sure “A1” is always set to “0.” The other dial (“A0”) should be set sequentially. For example, the first controller should be “0,” the second controller “1,” the third controller “2,” etc.

How to Connect Your Light Zones to the Controller

Use the following diagram and table to connect a three color, four zone show to your light controller.

CHANNEL	SUGGESTED ITEM TO PLUG IN
1 (ZONE 1)	Red Light Strands (C9, C7, LED or Minis)
2 (ZONE 2)	Red Light Strands (C9, C7, LED or Minis)
3 (ZONE 3)	Red Light Strands (C9, C7, LED or Minis)
4 (ZONE 4)	Red Light Strands (C9, C7, LED or Minis)
5 (ZONE 1)	Green Light Strands (C9, C7, LED or Minis)
6 (ZONE 2)	Green Light Strands (C9, C7, LED or Minis)
7 (ZONE 3)	Green Light Strands (C9, C7, LED or Minis)
8 (ZONE 4)	Green Light Strands (C9, C7, LED or Minis)
9 (ZONE 1)	White Light Strands (C9, C7, LED or Minis)
10 (ZONE 2)	White Light Strands (C9, C7, LED or Minis)
11 (ZONE 3)	White Light Strands (C9, C7, LED or Minis)
12 (ZONE 4)	White Light Strands (C9, C7, LED or Minis)
13	Miscellaneous (Tree Top Star, Reindeer, Candy Cane, etc,)
14	Miscellaneous (Tree Top Star, Reindeer, Candy Cane, etc,)
15	Miscellaneous (Tree Top Star, Reindeer, Candy Cane, etc,)
16	Miscellaneous (Tree Top Star, Reindeer, Candy Cane, etc,)

NOTE: You can connect other devices to the available outputs (13-16), just be sure the total load at any point in time does not exceed the light controller's amperage limit.

Use for Year-Round

The Christmas in a Box can be used for several events to dazzle your friends and family:

Halloween

HAUNTED IN A BOX HOUSE

Use your Haunted House in a Box "personality cards" to play Halloween lighting shows and songs. Plug in strobe lights, flood lights, black lights, etc. for a fun and spooky display.

Parties

Use our Party in a Box "personality cards." We have the shows and songs to help you and your friends dance the night away!

Patriotic Holidays

Use out Patriotic "personality cards." We have lighting shows and songs that help capture the spirit of these holidays!

Support Issues or for More Details

CALL: 816.941.0400 (9 a.m. to 5 p.m. CST, M-F excluding holidays)

EMAIL: *support@animatedlighting.com*

Warranty and Disclaimer

Please consult *www.animatedlighting.com* for product warranty and disclaimer information.

Light Load Limits for a Christmas in a Box Controller

Type of Lights Used in Your Display	Maximum quantity of Selected Lights the Christmas in a Box Controller Can Support	Maximum Number of Items That Can Be Connected in a Channel
Using only mini lights	Use up to 72 sets, 100 mini lights on each set	29 100-light sets
Using only LED lights	Use up to 400 sets, 70 LEDs on each set	250 70-light sets
Using only C7 bulbs	Use up to 576 total C7 bulbs	9 25-light sets
Using only C9 bulbs	Use up to 411 total C9 bulbs	6 25-light sets

Each channel is limited to 10 AMPs, but the entire controller is limited to 15 AMPs total. If you are mixing light bulb types, use the worksheet below to determine your AMPs per channel and total AMPS for your light controller. NOTE: A 30 AMP or 60 AMP controller is available for higher amperage requirements.

Item Description (Type of Lighting Used)	Approximate Number of Amps per Item
150 mini lights (.17a bulbs)	0.51
100 mini lights (.17a bulbs)	0.34
50 mini lights (.17a bulbs)	0.17
20 mini lights (.17a bulbs)	0.11
25-light C7 set	1.04
25-light C9 set	1.46
18-foot rope light	0.45
35-light LED set	0.02
70-light LED set	0.04
18-foot morphing rope light	0.90
40-watt Edison bulb	0.33
60-watt Edison Bulb	0.50
100-watt Edison Bulb	0.83
150-watt flood light	1.25

Channel	Item Description (from above)	Amps Per Item (from above)		No. of Items Connected in this Channel		Total Amps (not to exeed 10 AMPS per channel)
1			x		=	
2			x		=	
3			x		=	
4			x		=	
5			x		=	
6			x		=	
7			x		=	
8			x		=	
9			x		=	
10			x		=	
11			x		=	
12			x		=	
13			x		=	
14			x		=	
15			x		=	
16			x		=	
TOTAL	THIS NUMBER CANNOT EXCEED 15, 30, or 60 A			(DEPENDING ON THE CONTOLLER) ▶		